21

ENTERED



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/475,158A

DATE: 06/04/2003 TIME: 07:55:56

Input Set : N:\Crf4\05082003\I475158.raw
Output Set: N:\CRF4\06042003\I475158A.raw

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1 <110> APPLICANT: Gardella, Thomas J.
        Kronenberg, Henry M.
2
        Potts, John T.
        Juppner, Harald
 5 <120> TITLE OF INVENTION: PTH Functional Domain Conjugate Peptides, Derivatives
        Thereof and Novel Tethered Ligand-Receptor Molecules
 7 <130> FILE REFERENCE: 0609.4780001
 8 <140> CURRENT APPLICATION NUMBER: US/09/475,158A
 9 <141> CURRENT FILING DATE: 1999-12-30
10 <150> PRIOR APPLICATION NUMBER: US 60/114,577
11 <151> PRIOR FILING DATE: 1998-12-31
12 <160> NUMBER OF SEQ ID NOS: 74
13 <170> SOFTWARE: PatentIn Ver. 2.1
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16 <211> LENGTH: 9
17 <212> TYPE: PRT
18 <213> ORGANISM: Homo sapiens
19 <400> SEQUENCE: 1
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24 <211> LENGTH: 17
25 <212> TYPE: PRT
26 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 2
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34 <212> TYPE: PRT
35 <213> ORGANISM: Artificial Sequence
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37 <223> OTHER INFORMATION: modified PTH sequence
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40
                         5
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41
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45 <211> LENGTH: 5
46 <212> TYPE: PRT
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47 <213> ORGANISM: Homo sapiens

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53 <211> LENGTH: 31
54 <212> TYPE: PRT
55 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: modified PTH sequence
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60
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66 <212> TYPE: PRT
67 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: modified PTH sequence
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71
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             . 5
72
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73
                                         25
                     20
74
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77 <211> LENGTH: 9
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81
82
84 <210> SEQ ID NO: 8
85 <211> LENGTH: 17
86 <212> TYPE: PRT
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89
                           5
90
91
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 99 <220> FEATURE:
 100 <221> NAME/KEY: MOD_RES
 101 <222> LOCATION: (31)...(31)
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RAW SEQUENCE LISTING

DATE: 06/04/2003 TIME: 07:55:56

PATENT APPLICATION: US/09/475,158A

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106
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107
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120 <213> ORGANISM: Artificial Sequence
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125 <222> LOCATION: (31)..(31)
126 <223> OTHER INFORMATION: AMIDATION
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130
                                          25
                     20
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138
139
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149 <222> LOCATION: (31)..(31)
150 <223> OTHER INFORMATION: AMIDATION
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152
153
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/475,158A

DATE: 06/04/2003
TIME: 07:55:56

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155		20 23			
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166		guugaaugge ugeguaaaaa aeugeaggae guu			
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177		guugaaugge ugeguaaaaa aeugeaggae guu			
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186	<400>	SEQUENCE: 16			
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188		guugaauggo ugoguaaaaa acugeaggae guu			
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		TYPE: PRT			
		ORGANISM: Homo sapiens			
		SEQUENCE: 17			
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196		1 10 ==			
197		Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His			
198		20			
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		LENGTH: 34			
203	<212>	TYPE: PRT			
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206		Ala Val Ser Glu His Gln Leu Leu His Asp Lys Gly Lys Ser Ile Gln 10 15			
207		1 2			
208		Asp Leu Arg Arg Phe Phe Leu His His Leu Ile Ala Glu Ile His			

RAW SEQUENCE LISTING

DATE: 06/04/2003 9/475,158A TIME: 07:55:56

PATENT APPLICATION: US/09/475,158A

209	20	25	30
210	Thr Ala	23	30
	SEQ ID NO: 19		
	LENGTH: 37		
	TYPE: PRT		•
	ORGANISM: Homo sapiens		
	SEQUENCE: 19		
217	His Ser Asp Gly Ile Phe	Thr Asp Ser Tyr Ser	Arg Tyr Arg Lys Gln
218	1 5	10	15
219	Met Ala Val Lys Lys Tyr	Leu Ala Ala Val Leu	Gly Lys Arg Tyr Lys
220	20	25	30
221	Gln Arg Val Asn Lys	•	
222	35		
224 <210>	SEQ ID NO: 20		
	LENGTH: 28		
	TYPE: PRT		
	ORGANISM: Homo sapiens		
	SEQUENCE: 20	The Ass Ass Tree The	Ara Iou Ara Iva Cla
229	His Ser Asp Ala Val Phe		Arg Led Arg Lys Gin
230	1 5 Met Ala Val Lys Lys Tyr	10	
231 232	met Ala val Lys Lys lyr 20	25	ASII
	SEQ ID NO: 21	23	
	LENGTH: 29		
	TYPE: PRT		•
	ORGANISM: Homo sapiens		
	SEQUENCE: 21		
239	Tyr Ala Asp Ala Ile Phe	Thr Asn Ser Tyr Arg	Lys Val Leu Gly Gln
240	1 5	10	15
241	Leu Ser Ala Arg Lys Leu	Leu Gln Asp Ile Met	Ser Arg
242	20	25	
244 <210>	SEQ ID NO: 22		
	LENGTH: 27		
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	ORGANISM: Homo sapiens		
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249	His Ala Asp Gly Val Phe		15
250	1 5	10	15
251	Leu Ser Ala Lys Lys Tyr 20	25	
252	SEQ ID NO: 23	23	
	LENGTH: 31		
	TYPE: PRT		
	ORGANISM: Homo sapiens		
	SEQUENCE: 23		
259	His Ala Glu Gly Thr Phe	Thr Ser Asp Val Ser	Ser Tyr Leu Glu Gly
260	1 5	10	15
261	Gln Ala Ala Lys Glu Phe	Ile Ala Trp Leu Val	Lys Gly Arg Gly
262	20	25	30

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/475,158A

DATE: 06/04/2003 TIME: 07:55:57

Input Set : N:\Crf4\05082003\I475158.raw
Output Set: N:\CRF4\06042003\I475158A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:42; Xaa Pos. 1,3,5,6,7,8

Seq#:43; Xaa Pos. 1,2,3,4,5,7,8,10,12,15,16

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/475,158A

DATE: 06/04/2003 TIME: 07:55:57

Input Set : N:\Crf4\05082003\I475158.raw
Output Set: N:\CRF4\06042003\I475158A.raw

L:835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0 L:866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0

STATISTICS SUMMARY

PATENT APPLICATION: US/09/475,158A

DATE: 06/04/2003

TIME: 07:55:57

Input Set : N:\Crf4\05082003\I475158.raw
Output Set: N:\CRF4\06042003\I475158A.raw

Application Serial Number: US/09/475,158A

Alpha or Numeric or Xml: Numeric

Application Class:

Application File Date: 12-30-1999

Art Unit: 1600

Software Application: PatentIN2.1

Total Number of Sequences: 74

Total Nucleotides: 8530 Total Amino Acids: 3760 Number of Errors: 0 Number of Warnings: 2 Number of Corrections: 0

MESSAGE SUMMARY

341 W: 2 ((46) "n" or "Xaa" used)